

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| S1 | 0 | 318/801 and invert and (converter\$4 rectify\$4 rectification) and (ac (alternat\$4 near4 current)) and (dc (direct\$2 near4 current)) and (pwm puls\$4 wave\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/12/16 06:46 |
| S2 | 521 | 318/801 and inverter and (converter\$4 rectify\$4 rectification) and (ac (alternat\$4 near4 current)) and (dc (direct\$2 near4 current)) and (pwm puls\$4 wave\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/10/29 17:09 |
| S3 | 1536 | (318/801).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/29 17:07 |
| S4 | 271 | S3 and inverter and (converter\$4 rectify\$4 rectification) and (ac (alternat\$4 near4 current)) and (dc (direct\$2 near4 current)) and (pwm puls\$4 wave\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/12/21 05:48 |
| S5 | 2 | "20050001582" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 06:49 |
| S6 | 43 | 318/801.ccls. and (dc\$2 adj2 ac\$2) and (ac\$2 adj2 dc\$2) and (pwm modulat\$4 rectangular) and (generat\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 06:55 |
| S7 | 30 | 318/801.ccls. and (dc\$2 adj2 ac\$2) and (ac\$2 adj2 dc\$2) and (pwm modulat\$4 rectangular) and (generator generation) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 07:10 |
| S8 | 23 | 318/801.ccls. and (dc\$2 adj2 ac\$2) and (ac\$2 adj2 dc\$2) and (pwm modulat\$4 rectangular) and (generator generation) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 source) battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 07:10 |
| S9 | 7 | S7 not S8 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 07:09 |
| S10 | 13 | S6 not S7 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 07:09 |

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| S11 | 27 | 318/801.ccls. and (dc\$2 adj2 ac\$2) and (ac\$2 adj2 dc\$2) and (pwm modulat\$4 rectangular) and (generator generation) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 07:12 |
| S12 | 37 | 318/801.ccls. and (dc\$2 adj2 ac\$2) and (ac\$2 adj2 dc\$2) and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 07:14 |
| S13 | 250 | 318/801.ccls. and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:06 |
| S14 | 10 | ("20040104704" "20040124808" "4808078" "5309349" "5436547" "5640073" "5782610" "6049474" "6501662" "6646411").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/12/16 07:16 |
| S15 | 1 | ("2004/0124808").URPN. | USPAT | OR | ON | 2006/12/16 07:18 |
| S16 | 107 | 318/801.ccls. and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and (current near4 (maximum threshold limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:11 |
| S17 | 11 | 318/801.ccls. and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((current near4 (below less (less\$2 adj2 than) (lower\$2 adj2 than)))) near4 (maximum threshold limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:15 |
| S18 | 15 | 318/801.ccls. and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((current near4 (below lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) near4 (maximum threshold limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:18 |

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| S19 | 24 | 318/801.ccls. and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((current near4 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) near4 (maximum threshold limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:32 |
| S20 | 47 | 318/801.ccls. and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((current near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) near9 (allow\$4 allowable maximum threshold limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:37 |
| S21 | 23 | S20 not S19 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:34 |
| S22 | 47 | 318/801.ccls. and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((current near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) near9 (allow\$4 allowable maximum threshold referece desir\$4 desirable limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:47 |
| S23 | 109 | 318/801 and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((current near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) near9 (allow\$4 allowable maximum threshold referece desir\$4 desirable limit\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 09:33 |
| S24 | 63 | S23 not S22 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:59 |
| S25 | 21 | S24 and engine | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 08:59 |

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| S26 | 29 | 318/801 and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((current near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) near9 (allow\$4 allowable maximum threshold referece desir\$4 desirable limit\$4)) and (resistance near9 (coil winding))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 09:40 |
| S27 | 14 | 318/801 and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((angle angular) near4 ((half\$2 adj2 cycle) ("180"\$2 adj2 degree))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 09:44 |
| S28 | 0 | 318/801 and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((angle angular) near4 ((half\$2 adj2 cycle) ("180"\$2 adj2 degree))) and (((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) same ((angle angular) near4 ((half\$2 adj2 cycle) ("180"\$2 adj2 degree)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/21 07:22 |
| S29 | 0 | 318/801 and (pwm modulat\$4 rectangular) and (generat\$4) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((angle angular) near4 ((half\$2 adj2 cycle) ("180"\$2 adj2 degree))) and (((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) same ((half\$2 adj2 cycle) ("180"\$2 adj2 degree))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 09:53 |

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| S30 | 0 | 318/801 and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((angle angular) near4 ((half\$2 adj2 cycle) ("180"\$2 adj2 degree))) and (((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) same ((half\$2 adj2 cycle) ("180"\$2 adj2 degree))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 09:55 |
| S31 | 0 | 318/801 and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and (decelerat\$4 ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and ((decelerat\$4 ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) same ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 09:57 |
| S32 | 3 | "318"/\$.cccls. and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and (decelerat\$4 ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and ((decelerat\$4 ((speed velocity) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) same ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:06 |

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| S33 | 8 | "318"/\$.cccls. and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and (decelerat\$4 ((speed velocity voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and ((decelerat\$4 ((speed velocity voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) same ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:18 |
| S34 | 11 | "318"/\$.cccls. and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near4 (increas\$4 ris\$4 rais\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:26 |
| S35 | 1 | "318"/\$.cccls. and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((pulse\$2 adj2 width) near4 (maximum threshold)) and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near4 (increas\$4 ris\$4 rais\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:24 |
| S36 | 1 | "318"/\$.cccls. and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near4 (increas\$4 ris\$4 rais\$4)) and (voltage near4 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near4 (increas\$4 ris\$4 rais\$4)) same (voltage near4 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:29 |

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| S37 | 2 | "318"/\$.ccls. and (pwm modulat\$4 rectangular) and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near9 (increas\$4 ris\$4 rais\$4)) and (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near9 (increas\$4 ris\$4 rais\$4)) same (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:39 |
| S38 | 9482 | "318"/\$.ccls. and (((dc\$2 (direct\$2 adj2 current) (d\$1 adj1 c\$2)) near2 (input source)) battery) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:37 |
| S39 | 3 | S38 and ((angle angular) near4 ((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near9 (increas\$4 ris\$4 rais\$4)) and (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near9 (increas\$4 ris\$4 rais\$4)) same (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:46 |
| S40 | 11 | S38 and (((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near9 (increas\$4 ris\$4 rais\$4)) and (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near9 (increas\$4 ris\$4 rais\$4)) same (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:51 |

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| S41 | 16 | S38 and (((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) and (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) same (voltage near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:54 |
| S42 | 5 | S41 not S40 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:53 |
| S43 | 17 | S38 and (((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) and ((pulse width voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) same ((pulse width voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:55 |
| S44 | 1 | S43 not S41 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:55 |
| S45 | 5 | 318/801 and (((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) and (temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) and ((pulse width voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) same ((pulse width voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 10:56 |

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| S46 | 18 | 318/801 and (temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) and ((pulse width voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than))) and ((temperature near9 (increas\$4 ris\$4 rais\$4 exceed\$4 (greater\$2 adj2 than) greater)) same ((pulse width voltage) near9 (below reduc\$4 reduction lower\$4 less (less\$2 adj2 than) (lower\$2 adj2 than)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 11:00 |
| S47 | 5 | 318/801 and ((temperature near4 (increas\$4 exceed\$4 excessive ris\$4 rais\$4)) same (voltage near4 (decreas\$4 lower\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 11:05 |
| S48 | 121 | "318"/\$.ccls. and ((temperature near4 (increas\$4 exceed\$4 excessive ris\$4 rais\$4)) same (voltage near4 (decreas\$4 lower\$4))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 11:05 |
| S49 | 29 | "318"/\$.ccls. and ((temperature near4 (increas\$4 exceed\$4 excessive ris\$4 rais\$4)) same (voltage near4 (decreas\$4 lower\$4))) and (((half\$2 adj2 cycle) (one\$2 adj2 half) ("180"\$2 adj2 degree))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 11:10 |
| S50 | 1 | 318/801 and engine and (engine near4 start\$4) and (pwm modulat\$4 rectangular) and (period interval time timing) and (laps\$4 near (period interval time timing)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/12/16 11:13 |